

# **EENG 4980 Communication Systems Lab**

Spring 2018

Time: T: 2:30 to 3:30 PM NTDP B227

**Instructor:** Dr. Kamesh Namuduri, NTDP B234, Kamesh.Namuduri@unt.edu

**TA:** TBD

## **Course Description**

This course provides laboratory materials for EENG 3810 Communication Systems. Topics include amplitude modulation, frequency modulation, pulse coded modulation, and communication system design with Simulink.

## **Prerequisite(s)**

EENG 3810 (must be taken concurrently for EE students)

## **Textbooks**

B. P. Lathi and Z. Ding, *Modern Digital and Analog Communication Systems*, Fourth Edition, Oxford University Press, 2009, ISBN 978-0-19-533145-5.

## **Grading Policies**

- Lab report: 70%
- Final project: 30%

## **General Comments**

- Attendance is mandatory for all laboratory sessions.
- Please follow the lab safety rules. No food or drinking is allowed in the lab.
- Students are encouraged to discuss class material in order to better understand concepts. However, all the reports you submit must be of your own. Direct copying of a solution will be considered as plagiarism and a violation of the University Honor Code.

## **Class Schedule (Tentative)**

1. Frequency multiplication
2. Amplitude modulation and demodulation
3. Frequency modulation
4. Frequency demodulation
5. Pulse coded modulation
6. System simulation with Simulink
7. Software defined Radio
8. Final project